

OUR
20th YEAR

BADGER STATE

Smoke Signals

For Radio Amateurs • By Radio Amateurs

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Vol. 20 No. 3 - 231st Consecutive Monthly Issue - Baraboo, Wisconsin - March 1989

Clyde "Coffee" Downing, W9HSY, Silent Key



Clyde Downing, W9HSY, Madison, died on Friday, February 17, 1989, in a Madison hospital, following a fall at his newly-purchased home on Madison's east side. According to news reports, the fall apparently caused a ruptured aorta.

Clyde had been president of the Madison Area Repeater Association since that club was organized 17 years ago, and was a key part of the MARA team which organizes the Madison Swapfest every year.

He was an avid flyer and licensed pilot, and took to the air at every opportunity.

He was also a well-known disk jockey in Madison, and was about to begin working for WTSO. He was a very popular live DJ for dances, wedding receptions and other events, and had bookings into the 1990s.

According to news reports, he was 66.

See "The End of an Era" on page 16 of this issue; also see "Madison Swapfest Number Changed" on page 9.

FCC Opens 18 MHz Band

The Federal Communications Commission has opened the 18 MHz band for operation by U.S. Radio Amateurs.

The band, 18.068 to 18.168 MHz, was opened to amateurs on a shared, non-interference basis at 0001 UTC January 31, 1989.

The new band is allocated to the following modes and frequencies:

18.068 to 18.168: A1A.

18.068 to 18.110: F1B (Digital emission for direct printing telemetry, telecommand, and computer communications).

18.110 to 18.168: Analog emissions, such as phone, FAX, and SSTV.

The normal amateur power limit of 1500 watts output applies to the band, but amateur operations must not cause harmful interference to U.S. government and foreign fixed service operations.

The American Radio Relay League had, in autumn of 1988, filed a petition asking for early access to the band.

The authorization is contained in a Report and Order in PR Docket 88-467. Under its terms and those of WARC 79, the band becomes exclusively amateur on July 1, 1989.

- From ARRL Bulletin 7, Jan. 30, 1989, and The ARRL Letter

Wisconsin QSO Party March 19

Sponsored by the West Allis Radio Amateur Club
Rules and Score Summary Form on Pages 11 and 12

ELMER

by Rich Regent, K9GDF



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Swapfests and other Social Events

MARCH 4, 1989. Fox Cities ARC Swapfest, Appleton High School - East, 2121 Emmers Drive, Appleton, WI. Amateur Exams. (see Testpoint) Dealers at 6:00 a.m. and general admission at 7:30 a.m. Tables: \$5.00 at the door or in advance. Send SASE to Don Baker, NB9J, 621 W. x7th St., Kaukauna, WI 54130.

MARCH 18, 1989. Michigan Crossroads Hamfest, Marshall, MI. Contact: SMARS, po box 934, Battle Creek, MI 49016

MARCH 19, 1989. The annual Wisconsin QSO Party sponsored by the West Allis RAC. See elsewhere in this issue for complete details.

MARCH 19, 1989. Tri County ARC Swapfest, Jefferson, WI. (see ad last issue of BSSS)

MARCH 19, 1989. Lamarsfest 1989 at the Lake County Fairgrounds, Grayslake, IL. Contact: LAMARS, Box 751, Libertyville, IL 60048.

APRIL 9, 1989. Madison Area Repeater Assn. Swapfest, Dane County Expo Center, Forum Bldg., Madison, WI. Contact MARA, Box 4007, Madison, WI 53711, or phone (608) 274-5153. (see ad this issue for complete details.)

APRIL 28-30. The Dayton Hamvention! - The biggest ham gathering in the world.

MAY 6, 1989. The Ozaukee Radio Club, Inc. will sponsor its eleventh Annual Swapfest, at the Circle B Recreation Center, Highway 60, Cedarburg, WI. Sellers admitted at 7:00 a.m. and general admission at 8:00 a.m. Admission is \$2.00 in advance or \$3.00 at the door. Four foot tables are \$2.00 each, in advance only. Food and refreshments will be available. For tickets, tables maps, or more information send business size SASE to ORC SWAPFEST, N4515 Crystal Springs

Ct., Fredonia, WI 53021.

JULY 8, 1989. South Milwaukee ARC Swapfest, Oak Creek, WI. Buy-Sell-Swap-Food-Drinks-Prizes-Camping. Amateur Radio Exams. (see ad on last page, and watch for full ad as date gets closer.)

August 19, 1989. The 8th annual Green Fox A.R.C. Picnic/Auction starting at noon. (Rain date August 20). Free food, drink and visiting. Prizes will include a gift certificate for two for a flight on the Hot Air Balloon "Wisconsin", which is based in Ripon, WI and officially represents the State. As always, there is no admission to this event. The proceeds of the auction pay for the costs incurred. Bring some pocket money to bid at the auction. For donations or more information, contact Jack Bremer, KB9WC, Route 1, Box 142, Markesan, WI 53946. (414) 398-2247

October 15, 1989. The 11th Annual Fall Ham & Computer Swapfest, Waukesha, WI., sponsored by the Kettle Moraine Radio Amateurs, Inc. Contact KMRA Swapfest, 313 Hillview Circle, Waukesha, WI 53188.

As a service to our readers, this section of Badger State Smoke Signals is available without charge to list your upcoming Swapfest, Hamfest, dinner, picnic, party or other event of interest to Radio Amateurs in Wisconsin and nearby areas.

Send information on your event to Kenneth A. Ebner, K9EN, 822 Wauona Trail, Portage, WI 53901. In addition, space is available at attractive rates on our advertising pages. For information on rates and requirements for our advertising pages, please contact K9ZZ or K9EN.

Club Meetings

BADGER AMATEUR RADIO SOCIETY

(W9YT - UNIVERSITY OF WISCONSIN - MADISON)
Monthly while school in session - 2nd Wednesday - 7:30 p.m. - B-314, Electrical Engineering Building.

CENTRAL WISCONSIN RADIO AMATEURS, LTD. (STEVENS POINT)

Second Wednesday.

EAU CLAIRE AMATEUR RADIO CLUB

2nd Tuesday - 7:30 p.m. - Parks and Recreation Bldg., Oxford and 1st Streets, Eau Claire. Hams, guests welcome. Travelers welcome on wide area club repeater K9UXP, 146.31/91.

FOUR LAKES AMATEUR RADIO CLUB (MADISON WI)

First and third Tuesdays - 7:30 p.m. - Red Cross Bldg., 4860 Sheboygan Ave.

FOX CITIES AMATEUR RADIO CLUB

Third Monday - 7:00 p.m. - Roosevelt Jr. High School, 318 E. Brewster St., Appleton. Info: (414) 735-6294.

GREEN BAY MIKE AND KEY CLUB

Second Thursday - Red Cross Bldg., corner Danz and Deckner, Green Bay. The 1989 Banquet will be held March 19. Contact Gregg Seidl, KA9LOE for information and reservations.

GREEN FOX AMATEUR RADIO CLUB

Third Monday - 7:30 p.m. - Green Lake Town Hall, int. of county hwy. K and N.

KETTLE MORAINE RADIO AMATEURS

Second Friday, 7:30 p.m. at the Kettle Moraine High School, located near the intersection Hwys 18 & 83 in Wale, WI.

LAKESHORE RPT. ASSN.

Last Tuesday, Jan., Apr., Jul., & Oct., 7:30 p.m. Red Cross Bldg., 4521 Taylor Ave., Racine, WI.

MANITOWOC COUNTY RADIO AMATEURS

Board meeting, First Wednesday - 7:00 p.m. - City Hall, 817 Franklin St., Manitowoc.
General meeting, Second Wednesday - Red Cross Building, 1816 Washington St., Manitowoc.

MENOMONEE FALLS AMATEUR RADIO CLUB

Last Tuesday - Doors open 7:30 p.m., meeting begins 8:00 p.m. - Security Savings and Loan, Menomonee Falls. Amateurs and guests welcome.

MILWAUKEE RADIO AMATEURS CLUB

Fourth Thursday - Wauwatosa Savings and Loan, 7500 W. State St. (November on the third Thursday. No meetings in July, August and December.) Meetings begin at 7:00 pm.

OZAUKEE RADIO CLUB

Second Wednesday - 7:30 p.m. - Saukville Community Center.

QCWA - WISCONSIN CHAPTER #55

For information about QCWA, contact Richard Regent, K9GDF or Mickey Dolgin, KB9G. The Wisconsin Chapter holds Spring and Fall dinner meetings. (Watch BSSS for dates.) You are invited to check in the QCWA net on Sundays on 3.985 MHz. at 8:30 a.m.

QCWA - SOUTHEAST WISCONSIN CHAPTER #162

Meets third Monday monthly, 7:30 p.m., Around the Clock Restaurant, 3012 Rapids, Drive, Racine.

RACINE MEGACYCLE CLUB

Second Monday, 7:30 p.m., Red Cross Bldg., 4521 Taylor Ave., Racine, WI

BADGER STATE SMOKE SIGNALS

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3 years	(36 issues)	\$23.00

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EDITORIAL MATERIAL, PHOTOGRAPHS, FEATURE ARTICLES, AND EXCHANGE PAPERS should be sent to Jim Romelfanger, address above.

DISPLAY ADS or INQUIRIES REGARDING DISPLAY ADS may be directed to Harry Westlund or Kenneth Ebner, addresses above.

SUBSCRIPTIONS should be sent, with check or money order (do not send cash), to Jim Decker, address above.

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RIVERLAND AMATEUR RADIO CLUB
First Tuesday - 7:30 p.m. - Onalaska Community Center, Onalaska WI.

ROCK RIVER RADIO CLUB
First Tuesday - 7:30 p.m. CST, 8:00 p.m. CDT - Dodge County Sheriff's Dep't, 141 N. Main, Juneau WI. ARES net - 146.64 MHz., Monday 7:30 p.m. CST, 8:30 p.m. CDT. 7277 Khz., Saturday 10:30 a.m.

SHEBOYGAN COUNTY AMATEUR RADIO CLUB
Second Tuesday - 7:00 p.m. - Sheboygan Red Cross/Boy Scout Bldg., 2032 Erie Ave.

SOUTH MILWAUKEE AMATEUR RADIO CLUB
First Wednesday - Legion Post 434, Shepard Ave., Oak Creek WI. Auctions in March and October.

TRI-COUNTY AMATEUR RADIO CLUB
Second Sunday of each month. Meetings are held at 7:00 p.m., at the Trinity Lutheran Church, 314 Barrie, Fort Atkinson, WI.

WASHINGTON COUNTY AMATEUR RADIO CLUB
Second Tuesday: ARES/RACES - 7:30 p.m., club meeting - 8:00 p.m., Town of Polk Town Hall, Hwy. 60 and Scenic Dr. Net on 146.13/73 every Monday 7:30 p.m.

WATERTOWN AMATEUR RADIO CLUB
First Thursday of the month at 7:00 p.m., Eaton Corp., 901 s. 12th St., Watertown, WI

WEST ALLIS RADIO AMATEURS CLUB
Second Tuesday - 8:00 p.m. - St. Francis Savings, 9330 W. Greenfield Ave.

WISCONSIN ASSOCIATION OF REPEATERS
The annual meeting with election of officers and proposed By-Law Changes will be held on Saturday March 4, 1989, at the Fox Cities ARC Hamfest, Appleton High School East., 2121 Emmers Drive, Appleton, WI. The room location will be announced, and the meeting will begin at 1:00 p.m.

WISCONSIN VALLEY RADIO ASSOCIATION (WAUSAU)
First Tuesday - 7:30 p.m. - Location varies; info on 146.04/64, Wausau.

YELLOW THUNDER AMATEUR RADIO CLUB (BARABOO)
Days rotate: 1989 meeting dates: Wed., Mar. 15, Thu., Apr. 13, Mon., May 15, Tue., Jun. 13, Wed., Jul. 19, Thu., Aug. 17, Mon., Sep. 18, Tue., Oct. 17, Wed., Nov. 15, Thu., Dec. 14, 1989. Monday meetings in room 28B of the Baraboo Civic Center; all others in room 25. Meetings start 7:30 p.m.

Let Badger State Smoke Signals know your club's meeting dates, and we will let our readers know of your meetings and activities. There may be Amateurs in your area interested in joining your club, or members of other interested in making an interclub visit.

THE BARGAIN MODE
SSB
SELL SWAP BUY
OUR WANT ADS GET RESULTS

WANTED: Heath Novice CW Transceiver model HW-99. Good used unit or an unfinished kit. Peter D. Bayne, 4125 North Farwell Ave., Shorewood, WI 53211. (414) 332-0986.

The TEST POINT



The following are known locations where Amateur Radio license examinations are scheduled in the Badger State area. (Underlined are added since last months BSSS.)

March 1, 1989	Milwaukee, WI (MRAC)
March 18, 1989	Milwaukee, WI (BE)
March 18, 1989	Menomonie, WI
<u>March 19, 1989</u>	<u>Jefferson, WI</u>
<u>March 25, 1989</u>	<u>Wisconsin Rapids, WI</u>
April 5, 1989	Milwaukee, WI (MRAC)
April 15, 1989	Milwaukee, WI (BE)
April 15, 1989	Eau Claire WI
May 3, 1989	Milwaukee, WI (MRAC)
May 6, 1989	Milwaukee, WI (BE)
June 7, 1989	Milwaukee, WI (MRAC)
June 17, 1989	Menomonie, WI
June 18, 1989	Stevens Point, WI
July 15, 1989	Eau Claire WI
September 16, 1989	Milwaukee, WI (BE)
October 14, 1989	Eau Claire WI
November 11, 1989	Menomonie, WI
December 2, 1989	Stevens Point, WI
Monthly, First Sat.	Racine, WI
Monthly, Last Sun.	Tomahawk, WI
Monthly, Third Sat.	Loves Park, IL

GENERAL RULES FOR MOST EXAMINATIONS:

Be sure to check with sponsors in the event there are changes and/or errors in the dates or information given.

Most examinations require filing an FCC Form 610 and advance registration at least 30 days before the exam date. (Some VECs permit walk-ins. Check with sponsor.)

To register, you must first secure a copy of the current FCC Form 610 and fill it out completely (AND CORRECTLY). Get your form from an FCC Field Office, the ARRL or Badger State Smoke Signals. Send a 25¢ SASE if you request one from the ARRL or BSSS. In most cases, forms can also be obtained from the sponsoring group.

ARRL/VEC examinations require a check for \$4.75 payable to "ARRL/VEC".

The FCC now requires applicants to show their original Amateur license to the VEC. A copy of your license must be attached to your FCC form 610. You will also be required to have a photo ID, or other acceptable identification.

Technician class licensees must show proof of testing before March 21, 1987, in order to upgrade to General with a code test only.

Additional information is given below.

MILWAUKEE RADIO AMATEURS' CLUB - MRAC/VEC

March 1, 1989, April 5, 1989, May 3, 1989, and June 7, 1989

Tests are Wednesday evenings at 7:00 p.m. at Wauwatosa East High School, North 74th Street and Milwaukee Avenue. Enter through the southmost entrance on 74th Street. Go to room 256 on the second floor. Please arrive promptly so testing can be completed before 10:00 p.m. Bring your original license and three good photocopies, a pen, and \$4.55 for the exam fee. Walk-ins accommodated as time permits. Register in advance on a Postal Service 15 cent post card; print the grade of license you are applying for, and your name, address, and telephone number. Send the

card to The Milwaukee Radio Amateurs' Club, Inc., 3840 South 43rd Street, #21, Milwaukee, WI 53220. For further information, contact Ed Seruga, KE9JJ, Secretary, MRAC at the above address. Telephone: (414) 545-6299 or (414) 546-0647.

BADGER EXAMINERS (BE) - MILWAUKEE

1989 examination dates: March 18, April 15, May 6 (Ozaukee Swapfest), and September 16.

Unless otherwise noted, examinations are administered beginning at 1:00 p.m. at St. Nicholas Parish, 5353 N. Green Bay Ave. (2 1/2 blocks south of Silver Spring), Milwaukee. Number for coin telephone at exam location is 228-9994. Walk-ins are welcome. Bring your original license, a good photocopy of it, and a second form of identification. Technician license holders must bring proof of having been tested prior to March 21, 1987 to upgrade to General with code test only. To register in advance, send a post card with your name, test or tests you wish to take, date you wish to be tested, your call sign, address and telephone number to Badger Examiners, Gary J. Sharbuno, WA9UJK, 5119 W. Willow Rd., Brown Deer, WI 53223.

WISCONSIN RAPIDS, WISCONSIN

March 25, 1989

Mid State Tech College. Contact: Gene Santoski, K9UTQ, 1220 18th St. So., Wisconsin Rapids, WI 54494

EAU CLAIRE, WISCONSIN

1989 examination dates: April 15, July 15, October 14

The July exams will be given in association with the Eau Claire Hamfest at the 4-H Junior Fair Grounds. All other tests will be given in the Facilities Management building on the University of Wisconsin - Eau Claire campus. Exams are given from 9 a.m. until noon. All walk-ins accepted. For further information, call Carl Searing, W9NW, at 715/834-1303.

TOMAHAWK, WISCONSIN

1989 examination dates: January 29; March 26; April 30; May 28; June 25; July 30; August 27; September 24; October 29. Examinations are given at the Tomahawk Teen Center at the corner of Lincoln and 5th Street. Registration begins at 8:30 a.m.; tests starts at 9 a.m. Walk-ins welcome. Novice tests given by appointment only. For more information, contact Greg Garner, WA9W, 4088 Hwy. 51, Harshaw WI 54529, or call 715/453-7096 or 715/282-6490.

MENOMONIE, WI (ARRL/VEC)

June 17, November 11, 1989.

Sponsored by the Dunn County ARC. Walk-ins only. Credit Union Office Building, Conference Room, lower level, 444 S. Broadway, Menomonie, WI. Contact: Dr. Thomas W. King, KD9TI, c/o office, 444 S. Broadway, Suite 1, Menomonie, WI 54751. (715) 235-4747 (O), 235-5757 (H).

RACINE, WISCONSIN - ARRL/VEC

First Saturday of each month except during summer and the Christmas holidays.

Exams are given at the Red Cross Building, 4521 Taylor Ave., Racine, WI. Walk-ins are permitted.

Send pre-registration to: William R. Firchol, Jr., N9DMP, 1912 27th Street, Kenosha WI 53140.

(continued on page 4)

Wisconsin Nets Association Ltd.

WISCONSIN NETS

NET	WNA	FREQ	UTC	CST	MANAGER
BWN	YES	3984	1200Z	0600	KC9CJ
BEN	YES	3985	1810Z	1200	WA9W
WSBN	YES	3985	2330Z	1730	K9UTQ
WNN	YES	3723	2400Z	1800	KA9TTM
WSSN	YES	3645	0030Z	1830	N9BDL
WIN/E	YES	3662	0100Z	1900	WB9ICH
WIN/L	YES	3662	0400Z	2200	W9NGP
NWTN	YES	34/94	0030Z	1830	NS9Q
Gr Bay	NO	72/12	0245Z	2045	WB9NRK
			THU	WED	
RACES	NO	3993.5	1815Z	1215	WC9AAG
			USB TUE. & THUR.		
RACES	NO	3993.5	1400Z	0800	WA9OAY
			LSB SUN.		

Section Manager's notes

Richard R. Regent, K9GDF
5003 South 26th Street
Milwaukee, WI 53221

Congratulations to new Badger Emergency Net Manager Greg, WA9W, of Harshaw. Special thanks to Lisa, KA9RII, for three years of outstanding volunteer work as previous Net Manager.

Welcome to new ARRL affiliated club Namekagon Valley Wireless Association in Hayward area, meets 2nd Thursday of month around 7 p.m. at home of President, KD9FC; N9ETE Sec./Treas.

Riverland ARC new officers: Pres. KOJYB, V. Pres. KA9HOP, Sec./Treas. WB9VYI.

KA9FOZ gave Amateur Radio demonstration to Girl Scout troop and included good media publicity.

Two ARRL Volunteer Examiner Teams in Wisconsin ranked high enough to become local custodians of test and application forms: Fox Cities ARC VEC and Tomahawk ARC VEC.

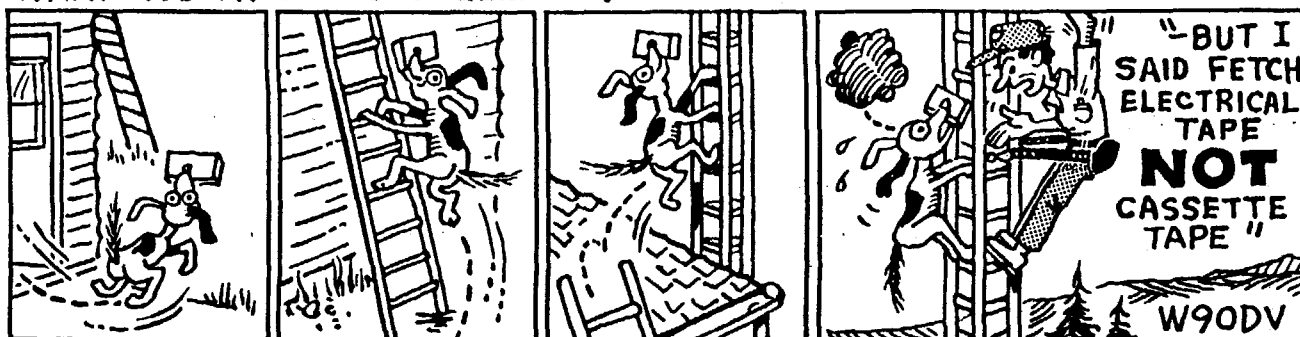
W9YCV and W9CBE enjoy their new AMTOR capabilities.

Sorry to report W9UCI, George Winkler of Stevens Point, became a Silent Key; he was Milwaukee's Pulaski High School radio class and club instructor for many Amateurs in the sixties.

New Emergency Coordinators: KA9PSL of Tomah for Monroe County, and WD9FLJ of Appleton for Outagamie County; contact them for a description of communication plans in their areas.

Central Wisconsin RA have received donated Ham equipment and are vastly improving their club station. CWRA doubled their newsletter mailing

WHAT-NO PHONETIC SPELLING ?



list to 200, but by using bulk rate they saved money even with the extra printing costs.

Helpful Racine Megacycle Clubbers say, "We give rides to members who have difficulty getting out during winter months. They really appreciate the service."

Bob, N9GMT, gave interesting program about remote receiver testing for the 91-Friendly repeater in Milwaukee; their new officers are Pres. K9IZV, V. Pres. WB9LZN, Treas. WD9EUF, and Sec. N9GMT.

Ozaukee RC considers upgrading their 220 MHz repeater, and hopes it will encourage more Novice use.

Three out of the 36 U.S. clubs having one hundred percent ARRL membership are in Wisconsin. They are: South Milwaukee ARC, Madison DX Club, and the W/K ARC of Greater Milwaukee.

Amateur exams in April 1st, Racine; April 5th, Milwaukee; and April 15th, Eau Claire.

I've just been asked to draw several cartoons for the EC Manual revision!

The following was received from Hale, W9CBE. It may be of interest to the members of WIN.

Hello Ken. I heard from Dick Hoppe, ND5T, reminiscing about WIN in the middle sixties. Here is part of his letter. If you like, you can use it in BSSS, possibly in the WNA Newsletter section.

I have 2 WIN certificates - 1 dated 1964 with a 1965 endorsement signed by Ken Ebnetter K9GSC from Portage. Ken was very active and was frequently NCS of WIN on 3530. The other WIN certificate is dated January 1971 and is signed by Sid Pokorny W9NRP.

At the time these certificates were issued, I was KOFDH and living in Colorado - but during the winter the skip was way out (even on 3530 freq of WIN) and they needed a QNB station in the worst way. Being a native of Madison, I was only too happy to oblige.

Other calls that may be of interest include: W9CBE Hale in McFarland - K9UUT Reese in Racine - W9MQW Wid in West Salem - W9KQB Bud in Manitowoc - WA9AKE Hank in Neenah - W9NLJ Pete in Madison - K9VSO Jim in Sun Prairie - W9IQW George in Port Edwards - W9SIZ Paul in West Bend - WOKNR Bill in Duluth - W9RTP George in Edgerton - W9VHP Ralph in Fond du Lac - and W9BLQ.

In the 70's I was W9OBV living up near Green Bay, but had no antennas up and moved here to New Mexico in 1980. Now my duties as director of TCC Pan Cycle 2 get me to bed too early and I miss you guys in WIN.

Best 73 to all the WIN gang
Dick Hoppe ND5T, TCC Dir DPAN

THE TEST POINT (continued from page 3)

JEFFERSON, WISCONSIN

March 19, 1989

Held away from the Swapfest grounds in Jefferson City Hall. Contact: Carl Searing, KW9W, Rte. 1, 224J Pioneer Rd., Whitewater, WI 53190. (414) 473 3831.

Last Sunday of every month.

Tomahawk Volunteer Examiners (ARRL/VEC). Tomahawk, WI. No pre-registration required, but appointment would be appreciated. Registration at 8:30 a.m. and testings starts at 9:00 a.m. For location or other information, inquire on 145.43 MHz. repeater or contact: Greg Garner, WA9W, 4088 Highway 51, Harshaw, WI 54529. Telephone (715) 453-7096.

Third Saturday of every month.

Northern Illinois Volunteer Examiners (DeVry VEC). Held at North Suburban Library on North Second Street in Loves Park, IL. Contact: Gene Melton, AK9N, 2901 Billie Rd., Rockford, IL 61109, (815) 874-6867

This section of Badger State Smoke Signals is available to publicize your Volunteer Examiner Amateur Radio license examination schedules. Please send us your schedules of dates, times, and locations that you will be conducting examinations and we will include the information here. Be sure to include contact address and any other necessary requirements. Information should be sent to K9EN or K9ZZ.

THE BARGAIN MODE

SSB

SELL SWAP BUY

OUR WANT ADS GET RESULTS

FOR SALE: YAESU FT 101ZD MK3 transceiver, 10 to 160 meter including 12 and 17 meter bands, CW filter with extra set of 6146 finals, YAESU FV 101Z VFO, YAESU SP 102 matching speaker, HEATHKIT SA 2060 2KW antenna tuner with built in power and SWR meters, HY-GAIN TH3JR -10, 15, 20M beam, HY-GAIN HR-40 rotor and control. Contact: L.J. Hemmer WB9TFJ, 815 3rd Street. Baraboo, WI 53913 Phone 608) 356-5658.

FOR SALE: Colorful United States Stamps. 100 all different. \$1.00 postpaid. Richard Regent, K9GDF, 5003 South 26th St., Milwaukee, WI 53221.

To add a little interest at a meeting where not much is happening, try a "Favorite QSL" contest. Have the members bring their favorite QSL card and have a prize for the most interesting, ETC.

NextDay™

QSLs

Two-Color
Rainbow Assortment

Call Today & We Ship NextDay 2nd Day ASAP

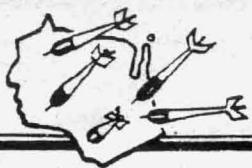
Baraboo, Wisconsin Sauk County K9ZZ	100	\$29.95	\$24.95	\$19.95
	200	\$39.95	\$34.95	\$29.95
	400	\$49.95	\$44.95	\$39.95
	500	\$54.95	\$49.95	\$44.95
	1000	\$99.95	\$89.95	\$79.95

Info \$1 by 1st class mail

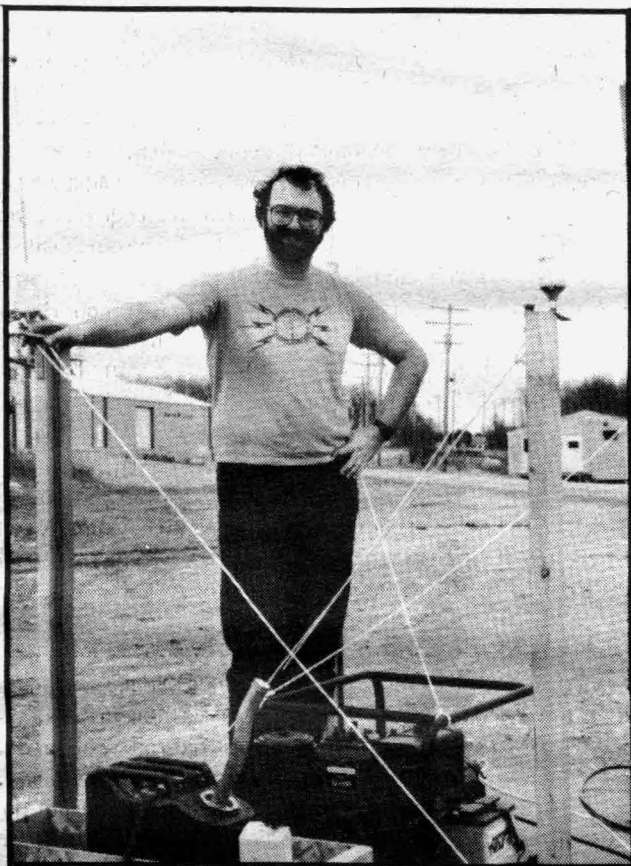
AntennasWest

(801) 373-8425

All orders ppd 2nd day air / priority mail.
For overnight air delivery add \$10.
Box 50062-SS, Provo, UT 84605



HERE and THERE



THE 1989 WISCONSIN QSO PARTY, sponsored by the West Allis Radio Amateur Club, will be held from 1800Z (12:00 noon CST March 19), and run for 7 hours, until 0100Z March 20 (7:00 p.m. CST March 19). Shown above is John Boos, NØBMP, who, with Mark Thompson, WB9QZB, operated mobile during the 1988 party. Towing a running generator on a trailer, and with antennas for all HF bands on the trailer, they tallied 21,351 points. Thanks to Mark Thompson, WB9QZB, for the photo.

The Wisconsin QSO Party is open to all stations, regardless of location, and has the following single operator or multi-operator entry classes: Fixed, Mobile, Novice and Technician.

An official entry form and multiplier form, and other QSO Party information, are on pages 11 and 12 of this issue of Badger State Smoke Signals.

WHO THE HECK ARE YOU? One of the great mysteries we often encounter at swapfests and other Ham Radio events is people whom we probably should recognize, but don't, because they aren't wearing a name and call sign badge or some other form of identification. This leads to having to ask somewhat embarrassing questions, such as, "Pardon me, but I don't have any idea who you are. Would you enlighten me?" It's a little unfair to those of us who do not have photographic memories; it's sometimes hard also to tie a voice or fist to a face we may never have seen before.

There are name badge shops in lots of places; try looking in your local Yeller Pages. The spring and summer swapfest season will soon be here; make it a little easier for others - get a name and call

sign badge now, and be sure to wear it when you trot out to a flea market! (One badge engraver offering very low prices - 3 lines for \$1.75, for example - and who has the Wisconsin outline - is Fallert's Engraving, 27 Verlynn Ave., Hamilton, OH 45013. Fallert's has advertised here in BSSS. Drop them a note for details.)

FRED LAUN, K3ZO, has retired after many years working for the United States Information Service, a government agency; this according to the local grapevine.

Fred, originally W9SZR, is from Kiel, Wisconsin. He studied political science at the University of Wisconsin in Madison in the 1950s. During his time with the USIS, Fred was based in a number of locations around the world; among these were the Dominican Republic, where he operated as HI8XAL, Thailand (HS1ABD and HS5ABD), Viet Nam, Argentina (LU5HFI), Colombia (HK3NBB), and possibly others. He was primarily responsible for having Thailand removed from the banned countries list, and for making Viet Nam available on the Ham bands with XV5AA, XV5AB, and XV5AC. He had many interesting experiences along the way, both professionally and on the Amateur Radio bands.

Fred married a Thai girl, and the Launs are living in the Washington, D.C. area.

We understand Fred has a big station on the air - maybe we will find him in the Wisconsin QSO Party.

IF YOUR CLUB OR GROUP SPONSORS A HAMFEST OR SWAPFEST, advertising the event here in Badger State Smoke Signals just makes good sense!

We reduce a copy of your flyer slightly and border it, which makes a nice, attention-getting display ad. And, special rates apply! You can run an ad one time for \$25.00, or twice for \$45.00. Or, take a card ad on our back page for 12 months for \$50.00; that keeps your date publicized all year, plus you get one display ad free! For more information, write K9ZZ, address on page 2.

HAM RANKS INCREASE: The number of FCC-licensed radio amateurs has surpassed 440,000 for the first time in history. FCC figures as of December 27,

1988, show a total of 440,311 licensed amateurs. By license class this looks like:

Novice	80,168
Technician	101,495
General	113,082
Advanced	98,681
Extra	46,885

Total 440,311

- The ARRL Letter

New Atlas, New Dentron Company Owner Arrested

Acting on complaints from Hams around the country, a New York Ham has been arrested by federal authorities who allege mail and wire fraud.

Accused is Michael D. Harrison, WB2-PTI, of Oceanside, Long Island. A twelve page complaint filed in U.S. District Court lists 20 victims who have ordered merchandise from Harrison's companies, called the New Atlas and the New Dentron Radio, between September, 1988, and the end of the year.

The government says that none of these people have received their equipment or a refund. Most of the orders were for the new Uniden HR-2510 10 meter transceiver. They also indicate that the list is growing, and they also believe that Harrison may have used the names John McNamara and Mike Hanson in his business dealings.

Government investigators say that they would like your help in their continuing investigation. If you have any information that may be pertinent to the case, please send it in writing to the office of Martin T. Beigelman, Postal Inspector, Post Office Box 160, Hicksville, NY 11802.

- The Westlink Report

SHOULD THERE BE A NO-CODE AMATEUR RADIO LICENSE? The debate is on again. What's your opinion? We'll ask some questions in a survey in next month's Badger State Smoke Signals. Watch for it, fill it out, and return it.

BADGER STATE Smoke Signals For Radio Amateurs • By Radio Amateurs

1 year (12 issues)	\$8.50
2 years (24 issues)	\$16.00 (save \$1.00)
3 years (36 issues)	\$23.00 (save \$2.50)

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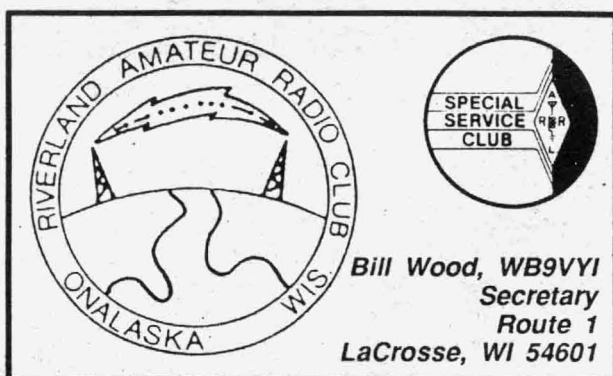
0389

Name: _____ Call (if any): _____

Address: _____ City: _____ State: _____ ZIP: _____

☐ 1 year ☐ 2 years ☐ 3 years

☐ new ☐ renewal



Bill Wood, WB9VYI
Secretary
Route 1
LaCrosse, WI 54601

The regular monthly meeting of the Riverland Amateur Radio Club was called to order at 7:30 p.m. on February 7, 1989, by President Dick Low.

Charlie Burch, KA9UUK, moved to dispense with the reading of the minutes, and to accept them as published in the Badger State Smoke Signals. Rick Williams, KV9U, seconded the motion, and it passed unanimously. The treasurer's report was read and approved.

37/97 REPORT

The new repeater is here; Van Elston, WA9FIO, gave a short report on it, and on the old repeater's status. The new repeater and controller were brought tonight, and some of the features would be shown after the meeting, as our program of the evening.

OLD BUSINESS

Thanks were given to those attending the Christmas Party; it was a big success. Thanks to Dick, KØJYB, from the club for providing the entertainment, and to Charlie, KA9UUK, for renting the PA system. (It was at this party that W9LZQ was presented our Ham of the Year award; congratulations, Kent Helman).

Dick, KØJYB; Greg, KA9FOZ; and Charlie, KA9UUK, each told us of badge makers, with prices ranging from 5 or 6 dollars up to \$10.00 each. It was asked how many members wanted to pursue the subject, and most of us were interested.

NEW BUSINESS

Jim Brooker, N9DBK, brought up the fact that he has the possibility of getting us about 100 rechargeable 12-volt batteries, which we might use as fund raisers. Rick, KV9U, made, and Charlie, KA9UUK, seconded a motion to offer \$25 for these batteries the hospital is replacing. All agreed.

Rick, KV9U, moved to have a swapfest March 7; Arby, N9HBQ seconded, and this also passed unanimously. We are going to have an auction table for the repeater fund at this time, too.

Rick, KV9U, mentioned that one of our meetings should be a show and tell type, for home brew radios or projects. Dick, KØJYB, read off a whole list of projects, proposals and suggestions for this coming year. Some of these were given to him by various members these last few weeks.

Greg Miller, KA9FOZ, has volunteered to oversee the needs, duties, etc., to help keep our club a Special Service Club. He was requested to present the information we need, and should understand, to help us keep this distinguished title. Greg said he would do this in the not too distant future.

Charlie, KA9UUK, was asked to be our Parliamentarian, and has accepted the task.

Rick, KV9U, made, and Greg, KA9FOZ, seconded the motion to adjourn at about 8:30 p.m., and all were in favor.

Ron Reed, KD9OY, won the monthly drawing.

As we adjourned, most of us gathered around Dan McKenzie, WCØV, and Curt Phelps, KA9YPF, for a demonstration of the new repeater and its controller.

Respectfully submitted:

Bill Wood, Sec./Treas. RARC

P.S. Our annual dues are due.

MEMBERS PRESENT

John Young	W9KAZ
Charlie Burch	KA9UUK
George Kroner	KA9HOP
Mickey Simpson	WD9GYT
Ron Reed	KD9OY
Dan McKenzie	WCØV
John Kass	WA9IZY
Glenn N. Whitlock	NØBBW
Arby Boomer	N9HBQ
Greg A. Miller	KA9FOZ
Ray Wakeen	WA9HHM
Nook Bentzen	K9EGO
John Jorenby	KA9ETH
Bill Wood	WB9VYI
Jim Brooker	N9DBK
Dick Low	KØJYB
Curt Phelps	KA9YPF
Tom Gromacki	KB9BIS
Van Elston	WA9FIO
Rick Williams	KV9U
Les Jenks	W9AKY
Robert Kerr	W9TXN
Karl Simonson	None Yet
Charles Ferris	W9TCW
Gary Webb	NI9V

GUESTS PRESENT

Greg Tribone

John Bahler

Riverland Amateur Radio Club Christmas Party Photos



The Riverland Amateur Radio Club held its Christmas party at the New Villa Restaurant in La Crosse. About 28 members and guests attended. Entertainment was by Annette Huppert (Miss Onalaska/Miss Oktoberfest and runnerup at the Miss Wisconsin Pageant); in the photo above, she serenades Dick Low, KØJYB. More RARC Christmas party photos are on page 15 of this issue. All photos were taken by Greg A. Miller, KA9FOZ.



Dick Low's (KØJYB) wife (seated, foreground) shows off her name badge, which reads "I'm married to a ham radio (KØJYB)." Craig Goldbeck, N9ETD (white shirt), and Dick Low, KØJYB, are at center.

Eau Claire Amateur Radio Club

Bob Fallis, W9BAR,
Secretary
1851 McKinley Road
Eau Claire, WI 54703

The next meeting of the Eau Claire Amateur Radio Club will be held on Tuesday evening, March 14th, in the Parks and Recreation Building, 1300 First Avenue.

MINUTES OF FEBRUARY 14 MEETING

The meeting was called to order by President Jerry Marx, NG9A, at 7:38 p.m. Nineteen members and one visitor were present. The minutes of the January meeting were read and approved. The financial report was read and approved.

BUSINESS REPORT

An election for the Board of Directors was held. Incumbents Jerry Marx and Carl Searing were re-elected. Jim Wiskow, KE9-BC, is the new board member.

We are presently updating our membership roster. If your dues for 1989 have not been paid, you will be dropped from membership and your subscription to BSSS will be discontinued. You may mail your dues to Bill Jablonske, W9NNS, at 810 Pearl Street, Chippewa Falls, WI 54729.

We are still in need of a committee to head up our Hamfest. Bill Jablonske, W9-

NNS, and Doug, KF6SF, volunteered. Members can expect to hear from them when they need help.

The flyers for the Hamfest have been printed, and are now available for distribution. If you can help with the publicity, call Don, K9UXP, for them.

The Northern Wisconsin Radio Club will hold its annual auction next Tuesday night, February 21st. It will be held in the American Legion Hall on Water Street. Our club has been asked to assist in hosting the meeting.

April 29th is the date of the March of Dimes Walk-A-Thon. We have been asked to again furnish communications for the event. We need help on this one. W9NW will coordinate.

Mike Schoenfuss, N9GHZ, was present at our meeting. He came as a representative of the Taylor County Amateur Radio Club. They are installing a digital repeater in the Medford area, and are interested in information on Packet activity in the Eau Claire area, as well as traffic and weather nets on the K9UXP repeater.

We have had the Articles of Incorporation reproduced. If you would like a copy of them, contact Bill, W9NNS.

The meeting was adjourned at 8:25 p.m.

After our coffee break, Dave Hanson, K9ZVZ, was introduced. For our program of the evening, Dave brought along a radio controlled model aeroplane. He demonstrated its construction and operation, and showed us a video of some of the models being flown. Our thanks to Dave for a very interesting and enlightening presentation.

Respectfully submitted:
Bob Fallis, W9BAR, Secretary

Foundation For Amateur Radio Announces Scholarships

The Foundation for Amateur Radio, Inc., a non-profit organization with headquarters in Washington, D.C., plans to award 32 scholarships for the academic year 1989-1990 to assist licensed Radio Amateurs.

The Foundation, composed of fifty local area Amateur Radio clubs, fully funds four of these scholarships with the income from grants and its annual Hamfest. It administers, without cost to the donors, the following scholarships:

- 7 scholarships for the Quarter Century Wireless Association,
- 5 for the Baltimore (MD) Amateur Radio Club,
- 3 for the Radio Club of America,
- 2 for the Dade (FL) Radio Club,
- 2 for the Amateur Radio News Service,
- 2 for the 10-10 International Net,
- 2 for the West Allis Radio Amateur Club (Emil Kumershek Memorial Scholarships - Wisconsin Amateurs only - \$500 each),
- 1 for the Richard G. Chichester Memorial,
- 1 for the Young Ladies' Radio League,
- 1 for the Columbia (MD) Amateur Radio Association,
- 1 for the Frederick (MD) Amateur Radio Club, and
- 1 for the Vienna (VA) Wireless Society.

Licensed Radio Amateurs may compete for these awards if they plan to pursue a full-time course of study beyond high school, and are enrolled in or have been accepted for enrollment at an accredited university, college or technical school. Some of the scholarships require the holding of at least an FCC General Class license or equivalent. The awards range from \$500 to \$2000, with preference given in some cases to residents of specified geographical areas or the pursuit of certain study programs.

Additional information and an application form can be requested by letter or QSL card, postmarked prior to May 31, 1989 from:

F A R Scholarships
6903 Rhode Island Avenue
College Park, MD 20740

The Foundation for Amateur Radio, incorporated in the District of Columbia, is an exempt organization under Section 501(c)(3) of the Internal Revenue Code of 1954. It is devoted exclusively to promoting the interests of Amateur Radio and those scientific, literary and educational pursuits that advance the purpose of Amateur Radio.

- From Foundation for
Amateur Radio news release

Two Pounds of ICOM, Please



If you are travelling in Brookfield, WI, and stop here for a rig, you'll get a quizzical look from the clerk. A Ham Store it is, but a Ham Store, it isn't.

Meat, they have, but Ham gear.. nope. John Frank, WB9TQG, was going past the store one day, and checked it out; he took this picture for BSSS.

ARRL Board of Directors Meets

The Board of Directors of the American Radio Relay League held its annual meeting in Hartford, CT, on January 20 and 21. President Price, Executive Vice President Sumner and Counsel Imlay all reported on aspects of the tireless and many-faceted campaign to retain the entire 220 to 225 MHz band. The most recent action was to request oral argument on the ARRL Petition for Reconsideration of the FCC decision last August to reallocate 220 to 222 MHz to the Land Mobile Service.

In other matters, the Board set out guidelines for Reply Comments in PR Docket 88-139, concerning rewrite of the amateur rules.

ARRL will file in favor of expanding the six meter repeater subband down to 51 MHz in PR Docket 88-527, with use of the band to be determined by detailed band planning.

The Board asked its officers to follow up on PRB-3, concerning special call signs. It has been more than a year since the close of comments, with no action by the FCC.

The Board reaffirmed the League position that all amateur communications for news media must meet all the elements of the FCC four-part test.

The Executive Committee is to develop and implement plans of action to bring about a higher level of FCC enforcement of the amateur rules, and to cause FCC to use the authority given it by Congress to control the immunity of electronic devices to RFI.

Regular summaries of government activity related to Amateur Radio are to be published by the League.

Turning to ARRL affairs, Directors Turnbull, Grauer, Mendelsohn and Frenaye were elected to the Executive Committee, Directors Metzger and Butler, and Dick

Eilers, WØYZV, were elected to the ARRL Foundation Board, and EVP Sumner will replace Perry Williams as ARRL Secretary.

HQ was authorized to proceed with development and purchase of a system to automate the DXCC process.

Washington State was divided into two ARRL Sections along the Cascade Mountains.

A statement of purpose was adopted for the ARRL VEC.

The eighth ARRL Computer Networking Conference was set for October 7 in Colorado Springs, Colorado.

HQ is to implement an Educational Advisor Program.

Several motions were adopted in support of the ARRL National Emergency Response Committee (ANERCOM).

Several motions were adopted to improve the process of electing Directors and Vice Directors.

The ARRL will vote to ratify the nominations of Richard Baldwin, W1RU, for reelection as President and Michael Owen, VK3KI, to be Vice President of the International Amateur Radio Union (IARU).

The Board also voted to support four of six proposed changes in the IARU Constitution and Bylaws.

The Board commended ARRL volunteers involved in the pilot new ham recruitment project in Florida.

Appreciation was expressed to AMSAT and especially Rich Ensign, N8IWJ, for bringing amateur work in connection with SkiTrek to the attention of young people.

Outgoing Chairman John Parrott, W4FRU, was applauded for his work with the DX Advisory Committee.

Complete minutes of the meeting will be published in the March issue of QST.

- From The ARRL Letter, published by the American Radio Relay League

Mancorad Elects Officers, Plans Special Event Station

The Manitowoc County Radio Amateurs (MANCORAD) recently elected new officers, and has several activities scheduled for 1989.

The officers are:

President: John Glaeser, WB9ESM
Vice-President: Dennis Campbell, KA9-ZXG

Secretary: Cyndi Mattie, KB9AEY

Treasurer: Dave Black, N9HNP

Members at Large: John Meyer, NZ9Z; Lou Maylander, KA9ZQF; Carl Olson, KA9-ZTF.

MANCORAD experienced some growth last year, with 21 new Novices, and club members are busily working on HAMFEST 89, to be held May 13.

The club plans a special event station operation to be set up in the Cobia submarine at the Manitowoc Maritime Museum. The operation, tentatively scheduled for some time in August, will be for 24 hours, and a special QSL card for the operation is planned.

The club has moved its meeting place from the Red Cross to the basement of the Manitowoc City Hall at 817 Franklin Street, which is also the location for the club station, W9DK. Antennas have been installed for the station. The Board of Directors meets the first Wednesday of each month, and general membership meetings are held the second Wednesday. The entrance to use is the back door off the parking lot.

The club's mailing address is P.O. Box 0204, Manitowoc, WI 54221.

- Cyndi Mattie, KB9AEY
P.O. Box 1235, Sheboygan, WI 53082

Wisconsin Amateur Is Number 4

The first ten recipients of the 80-meter single-band DXCC awards have been announced. They are:

- 1) John Devoldere, ON4UN/326
- 2) Bob Eshlman, W4DR/304
- 3) Russel Martin, W3MFW/294
- 4) Randy Schaaf, W9ZR/288
- 5) Albert Hix, W8AH/284
- 6) Austin Regal, N4WW/283
- 7) Robert Dixon, K4MQG/282
- 8) Robert Mitchell, W1NH/280
- 9) Leslie Murphy, K4DY/279
- 10) Richard Roderick, K5UR/276

Randy Schaaf, W9ZR, is a resident of Oneida, Wisconsin.

- From The ARRL Letter

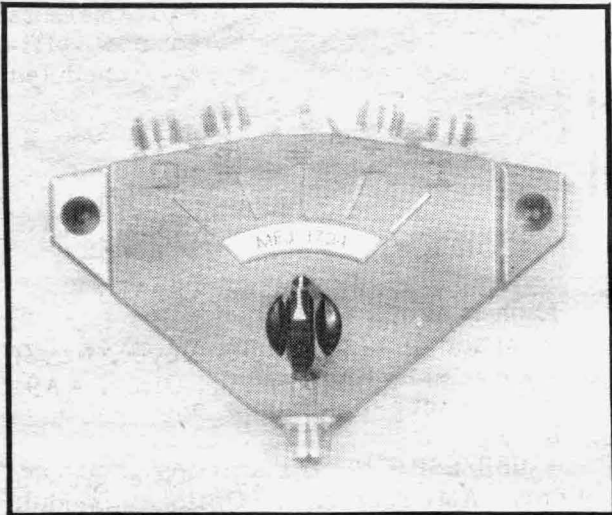
THE VOLUNTEER WRITERS, PHOTOGRAPHERS AND CARTOONISTS whose work you see in BSSS would like to hear from you! Drop them a note today.



WISCONSIN HAM IN BRAZIL

Kevin Kirby, N9GWW (right), of Mazomanie, is spending a year in Brazil, under auspices of Rotary International. His Brazilian call is PY4ZKB. Kevin, who is sight-handicapped, is not keeping on-the-air schedules at this time. At left is Greg Zier, KA9VDU, of Madison, who is typing in Braille. Thanks to Dan Zier, KB9BNU for the photo.

New Products



MFJ-1704 ANTENNA SWITCH

MFJ's new 4 position coax antenna switch gives you the convenience of instantly selecting one of four antennas, and the peace of mind you get from its built-in lightning protection with replaceable protector cartridge.

This sturdy 50 ohm switch handles 2.5 KW PEP, 1 KW CW, with extremely low SWR. Isolation is rated from better than 60 dB at 30 MHz to better than 50 dB isolation at 500 MHz. Insertion loss is negligible.

Construction is solid both inside and out. Inside is the lightning protection device that gives you peace of mind and helps take the fear out of thunderstorms. In addition, you get cavity construction and metal strip leads that prevent chafing and shorting problems common to wire leads. Outside is the beautiful heavy steel cavity case that'll stand up through the years.

You also get convenient mounting holes and a heavy duty spring loaded ball bearing switch.

Unused positions are automatically grounded, or you can select the convenient center ground position.

Lightning protection is more important than ever, because today's solid state rigs have hundreds, even thousands, of critical solid state parts. Damage from lightning or power surges to even one of these parts can damage your rig and make repairs necessary.

- MFJ news release

for the MFJ-1278 Multi-mode Data Controller that sells for only \$249.95.

The MFJ-1278 was originally released with transmit and receive in 7 modes: Packet, RTTY, WeFAX, SSTV, CW, ASCII, and Contest Memory Keyer modes. Recently added were Navtex receiving and AMTOR transmit and receive, giving the MFJ-1278 9 modes.

Also recently added were two features for the MFJ-1278 Packet mode: the new Easy Mail™ Personal Mailbox and a new KISS Interface for TCP/IP compatibility.

In addition, new terminal software for the Macintosh computer, the MFJ-1287 Starter Pack with software, interface cable and instructions is available for \$19.95. The MFJ-1287 allows Wefax printing to screen and has other advanced features.

(Please turn to page 10)

Madison Swapfest Number Changed

Due to the sudden and unexpected death of Madison Area Repeater Association President Clyde Downing, W9HSY, the telephone number to call to make reservations for the Madison Swapfest and Computer Fair has been changed from Clyde's to 608/249-7579. (Jim Waldorf, KB9AQQ, MARA Vice-President). Leave a message on his answering machine. Please note that if you had verbally asked Clyde to make reservations for you for the swapfest, and if you do not have written confirmation, it is recommended that you call Jim Waldorf at the above number and verify that your reservations are valid and confirmed.

17th
Annual

MADISON SWAPFEST & COMPUTER FAIR

Madison, Wis.

Sponsored by Madison Area Repeater Association - WB9AER - Madison, Wis.

DANE COUNTY EXPO CENTER FORUM BLDG.

TALK - IN ON 147.75 - 147.15 REPEATER

Doors Open at 8 A.M. - Sun., April 9, 1989

BOOTH EXHIBITORS & FLEA MARKET SELLERS WITH 6 OR MORE TABLES AT 2 A.M.

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ADMISSION PER PERSON - \$3.00 ADVANCE -- \$4.00 DOOR (Children 12 & Under Free)

TABLES - \$8.00 ADVANCE -- \$9.00 AT DOOR -- **Reserve Early -- Sell Out Every Year.**

TABLE RESERVATIONS DO NOT INCLUDE ADMISSION PRICE - YOU MUST BUY SEPARATE ADMISSION TICKET

WE URGE YOU TO CARPOOL AS THE COUNTY CHARGES A PARKING FEE!!!

For Information on Exhibitor Booths, Contact MARA, P. O. Box 4007, Madison, WI 53711, Or Call (608) 249-7579 Answer Machine

ADVANCE RESERVATION COUPON

NAME _____ CALL _____

ADDRESS _____ CITY _____ STATE _____ ZIP _____

PLEASE SEND _____ TICKETS AT \$3.00 Per Person

PLEASE RESERVE _____ TABLES AT \$8.00 Each - Table Fee Does Not Include Admission Fee!

TOTAL AMOUNT ENCLOSED \$ _____

If there are no more tables available do you still wish to purchase tickets? YES() NO()

A.C. Outlets available to Booth Exhibitors ONLY.

Make Checks Payable to MARA - Mail to MARA, Box 4007, Madison, WI 53711

Tickets and Table Reservations Confirmed by Return Mail.

RESERVATIONS NOT ACCEPTED AFTER MARCH 31, 1989.



ADDED FEATURES FOR MFJ-1278
MULTI-MODE DATA CONTROLLER

MFJ Enterprises, Inc. announces several new modes, features and enhancements

New Products

(Continued from page 9)

Existing programs for the IBM (MFJ-1284) and Commodore (MFJ-1282 disk/-MFJ-1283 tape) remain available with cable and instructions for \$19.95 each.

- MFJ news release

FREE 1989 MFJ ENTERPRISES AMATEUR RADIO ACCESSORIES CATALOG

MFJ Enterprises, Inc., the company that sells more ham radio accessories than anyone else in the world, brings you their latest 16 page Amateur Radio Catalog.

It's free! Simply call or write for a copy.

Over 80 amateur radio accessories are featured, including the world's most popular antenna tuners, the MFJ-1278 Multi-mode Data Controller, the MFJ-931 Artificial RF Ground, and over 10 new MFJ products for amateur radio.

Also featured is MFJ's full line of keyers, filters, packet radio controllers, computer interfaces, dummy loads, ham software, antenna switches, speaker, wattmeters, R-X noise bridge, antenna bridge, antenna current probe, code practice oscillator, clocks, and many other unique and useful ham radio accessories that are available only from MFJ.

To receive your copy of the catalog, or if you have questions about or wish to order the other MFJ products above, call toll free (800) 647-1800 or (601) 323-5869, Telex MFJ STKV, or write MFJ Enterprises, Inc., P.O. Box 494, Mississippi State, MS 39762.

KANTRONICS WeFaxWorks

WeFaxWorks is a program designed for the Apple Macintosh computer which will allow reception of weather maps and charts on a standard Macintosh. The program allows the user to display one line of the picture, then skip a selectable number

of lines before displaying another. The user can select to skip 0 - 5 lines, thus allowing at least one line of every 6 to be displayed, which will allow the entire fax map to be displayed on one screen of the Macintosh. Choosing skip 0 would allow every line of the received map to be displayed on the screen.

During live reception, the screen will scroll automatically when the bottom line of the screen is reached. This is accomplished by scrolling the screen up 1/3 of the full screen height, and then displaying new lines on the bottom so that the displayed picture is continually recognizable.

Synchronizing of the signal is simple; just point the mouse at the sync mark and click once. This will cause the received and displayed signal to be aligned with the left edge of the Macintosh screen.

The entire picture is saved as it's being received into a buffer on the system, and once you exit the receive mode, you can select the buffer display, and the captured picture will appear on the screen, complete with scroll bar, allowing you to scroll up and down through the picture. While viewing the buffer, you may also change the skip rate, to view the "missing" lines of the picture.

The buffer contents can be saved to disk by choosing "Save...." from the File menu, and a saved WeFaxWorks map can be recalled from disk with the "View File...." selection. The buffer contents will be erased when you enter the "Receive Live" mode, or when a map is recalled from the disk.

Printing of the maps can be accomplished by using MacPaint format files. The portion of the map you want to print should be brought to the screen using the Display Buffer mode and scroll bar. Pressing the Shift-Command-3 combination (standard Macintosh) will take a snapshot of the screen and save it to disk as Screen0 through Screen9. These files are MacPaint format and can be opened and touched up with MacPaint. Then printing of the files is done through MacPaint's Print.... choice.

For more information, contact Kantronics, Inc., 1202 E. 23rd St., Lawrence, KS 66046.

- Kantronics, Inc. news release



ICOM IC-725 HF TRANSCEIVER

Icom is proud to announce the new ultra-compact IC-725 HF transceiver. The all-mode IC-725 features:

- * Compact - measures only 9.0"W by 3.7"H by 9.4"D.

- * USB/LSB/CW transmitting and receiving. AM receiving. Optional module #UI-7 for FM transmit/receive and AM receive.

- * 26 tunable memories with Band Stacking Registers. Two memory channels (channel 23 and 24) memorize both receive and transmit frequencies for split operation. Store the frequency, offset and sub-audible tone for each memory.

- * DDS (Direct Digital Synthesizer) system.

- * Built-in AH-3 controller. Optional AH-3 automatic antenna tuner available.

- * Three scanning systems. Programable scan: scan all frequencies between memory channel 25 and 26. Memory scan: scan all memory channels or lock-out channels in the memory sequence. Selected Mode scan: scan a selected mode.

- * Priority Watch. Monitor the call channel every five seconds while operating on another frequency.

- * 105dB dynamic range receiver.

- * Low noise DDS switching.

- * 160 through 10 meter operation. Short wave reception from 30 KHz to 33 MHz.

Other fine features include: Panel-selectable RF preamp and attenuator, dual VFOs, highly effective noise blanker, RIT, semi-break in CW, selectable AGC, a rugged full duty cycle, and optional narrow CW filter.

The IC-725 will be available in February 1989. Suggested retail price is \$949.00.

- ICOM news release



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FL-103 WIDEBAND SSB FILTER FOR IC-781

ICOM announces the FL-103 wideband SSB filter for the IC-781 HF transceiver. The 2.8 KHz SSB filter fits in the 9 MHz IF of the IC-781, and provides improved SSB audio fidelity.

The FL-103 is currently available. Suggested retail price is \$72.50.

- ICOM news release

KANTRONICS DIGITAL COMMUNICATIONS MANUALS

Kantronics, Inc., announces the release of its new manual set. The three manuals included in the set are an Installation Manual, Operation Manual, and a Command Manual. This set includes instructions for the KAM, KPC-4, KPC-2, and KPC-2000. Kantronics, Inc., 1202 E. 23rd St., Lawrence, KS 66046.

- Kantronics news release

Wisconsin QSO Party



The rules and multiplier list for the 1989 Wisconsin QSO Party are printed below, and on the reverse side is the score summary sheet. A 100 point bonus will be given to each entry using this official form. You

may clip and use this form or use a good photocopy of it, or get more forms from the West Allis Radio Amateur Club, P.O. Box 1072, Milwaukee, WI 53201. See "Here and There", page 5, for more information.

The Wisconsin QSO Party is fun for all, from the serious contest operator to those who prefer to jump in for a while to give contacts - and sometimes multipliers - to the others. If you are in a "rare" county, you will be busy!

In addition to individual competition, the party also features a club competition. Last year, 23 different Wisconsin clubs were represented in the club aggregate totals, with the W/K Amateur Radio Club of Milwaukee topping the scores with 184,206 total points; that was up from second place in 1987's party. The Kettle Moraine Radio Amateurs, which placed first in 1987 with 293,862 points, fell to sixth place last year, with 121,601 total points.

The top ten single operator fixed station entries last year were: (1) NA9D, Forest County, 66,530; (2) WB9SBD, Vernon County, 66,500; (3) W9XT, Dodge County, 62,335; (4) KB9S, Pepin County, 60,536; (5) N9AU, Milwaukee County, 50,641; (6) W9WAQ, Dodge County, 48,875; (7) NB9C, Dane County, 47,658; (8) N9-AW, Milwaukee County, 45,645; (9) WB9HRO/9, Sawyer County, 41,860; and (10) NI9Z, Sheboygan County, 39,825.

Top 1988 Multi-Operator Mobile was K9-JWU, with 10,400 total points; top Single-Operator Mobile was W9WL, with 25,735. Novice-Single Operator was won by KA9WXN, Milwaukee County, with 10 points, and Single-

WISCONSIN QSO PARTY RULES

- DATE/TIME:** 1800Z MARCH 19 - 0100Z MARCH 20, 1989.
- MODES:** CW and Phone. All stations may be worked once per mode on each band. In addition, mobiles may be worked once per mode per county that they operate from. No Repeater QSOs Allowed. No more than one transmitter on the air at one time from an entry.
- ENTRY CLASSES:** Single Operator - Fixed Multi Operator - Fixed
Single Operator - Mobile Multi Operator - Mobile
Single Operator - Novice Multi Operator - Novice
Single Operator - Technician Multi Operator - Technician
- EXCHANGE:** Wisconsin stations send county.
Non-Wisconsin stations send state/province.
- FREQUENCIES:** CW: 3550, 3725, 7050, 7125, 14050, 21150 (Other bands may be used).
- (Suggested)** Phone: 3890, 7290, 14290, 28400.
- SCORING:** Phone contacts count 1 QSO point; CW contacts count 2 QSO points.
WISCONSIN STATIONS: Multiply the sum of QSO points by the sum of Wisconsin counties (max 72), plus states (max 50) plus provinces (max 13).
Note: DX countries count for QSO points but not as multipliers.
NON-WISCONSIN STATIONS: Multiply the sum of QSO points by the number of Wisconsin counties (maximum 72).
- BONUS:** ALL: Add 100 bonus points for using official entry form or photocopy.
WISCONSIN MOBILES/PORTABLES: Add 500 bonus points for each county that you operate from, outside your home county, with a minimum of 15 QSOs per county to qualify.
- LOGS:** Entries must contain a log consisting of: Time (GMT), call, band, state/province, Wisconsin county, mode and a complete Score Summary including YOUR name, address and call. Circle new multipliers as worked. Logs containing more than 100 QSOs must be accompanied by a dupe sheet (separate dupe sheet for each mode).
Mobile entries must indicate county changes in log and submit a separate dupe sheet for each county.
Entries must be postmarked by April 15, 1989 and sent to:

WISCONSIN QSO PARTY
WEST ALLIS RADIO AMATEUR CLUB
P. O. BOX 1072
MILWAUKEE, WI 53201

- AWARDS:** **NON-WISCONSIN:** Awards will be presented to the highest single operator score in each single operator category in each state/province.
WISCONSIN: Awards will be presented to the following:
- Plaque to highest single operator score in the QSO Party.
 - 10 highest single operator scores in each entry class.
 - Highest multi-operator score in each entry class.
 - Highest aggregate club score (club member stations to be located within 50 miles of the club except for mobiles).

WISCONSIN COUNTIES				STATES			CANADIAN PROVINCES
ADAMS	FLORENCE	MARATHON	RUSK	ALABAMA	LOUISIANA	OHIO	ALBERTA
ASHLAND	POND DU LAC	MARINETTE	SAUK	ALASKA	MARYLAND (D.C.)	OKLAHOMA	BRITISH COLUMBIA
BARRON	FOREST	MARQUETTE	SAWYER	ARIZONA	MASSACHUSETTS	OREGON	LABRADOR
BAYFIELD	GRANT	MONROVIE	SHAWANO	ARKANSAS	MAINE	PENNSYLVANIA	MANITOBA
BROWN	GREEN	MILWAUKEE	SHEBOYGAN	CALIFORNIA	MICHIGAN	RHODE ISLAND	NEW BRUNSWICK
BUFFALO	GREEN LAKE	MONROE	ST. CROIX	COLORADO	MINNESOTA	SOUTH CAROLINA	NEWFOUNDLAND
BURNETT	IOWA	OCONTO	TAYLOR	CONNECTICUT	MISSISSIPPI	SOUTH DAKOTA	NORTHWEST TERRITORIES
CALUMET	IRON	ONEIDA	TREMPERLEAU	DELAWARE	MISSOURI	TENNESSEE	NOVA SCOTIA
CHIPPEWA	JACKSON	OUTAGAMIE	VERNON	FLORIDA	MONTANA	UTAH	ONTARIO
CLARK	JEFFERSON	OZAUKEE	VILAS	GEORGIA	NEBRASKA	VERMONT	PRINCE EDWARD ISLAND
COLUMBIA	JUNEAU	PEPIN	WALWORTH	HAWAII	NEVADA	VIRGINIA	QUEBEC
CRAWFORD	KENOSHA	PIERCE	WASHINGTON	IOWA	NEW HAMPSHIRE	WASHINGTON	SASKATCHEWAN
DANE	KEWAUNEE	POLK	WAUKESHA	IDAHO	NEW JERSEY	WEST VIRGINIA	YUKON TERRITORY
DODGE	LA CROSSE	PORTAGE	WAUPACA	ILLINOIS	NEW MEXICO	WISCONSIN	
DOOR	LAFAYETTE	RACINE	WAUSHARA	INDIANA	NEW YORK	WYOMING	
DOUGLAS	LANGLADE	RICHLAND	WINNEBAGO	KANSAS	NORTH CAROLINA		
DUNN	LINCOLN	ROCK	WOOD	KENTUCKY	NORTH DAKOTA		
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Braille CW Net Operating Aids Offered

Blind Radio Amateurs who would like to check into CW traffic nets may have, free of charge, Braille copies of the "QN" signals which are used on those nets.

If you know a non-sighted Amateur who could use one of these Braille operat-

ing aids, send his/her name by mail or radiogram to Lee G. Andreas, N9BDL, Rte. 1, 7600 Highway D East, Lake Tomahawk, WI 54539-9500. Lee will take care of sending the operating aid; he requests that the address you send be the blind Amateur's.



SSB
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OUR WANT ADS GET RESULTS

WANTED: SSB CB rig for conversion to 10 meters. Jim Romelfanger, K9ZZ, adr. p. 2.



1989
WISCONSIN QSO PARTY
SCORE SUMMARY SHEET

Call _____ Home WI County _____

Name _____ Club Affiliation _____

Address _____

City _____ State/Province _____ Zip _____

ENTRY CLASS: Single Op Fixed ☐ Multi Op Fixed ☐
 Single Op Mobile ☐ Multi Op Mobile ☐
 Single Op Novice ☐ Multi Op Novice ☐
 Single Op Technician ☐ Multi Op Technician ☐

WI Counties Worked From _____

SCORING: CW QSOs _____ x 2 = _____ CW Points
 Phone QSOs _____ x 1 = _____ Phone Points
 Sum of CW + Phone Points = _____ QSO Points
 Number of Multipliers = _____ Multipliers
 Wis. Counties (72) _____
 States (50) _____
 Provinces (13) _____
 QSO Points x Multipliers = _____ Points
 Added Bonus Points = _____ Points
 Total Final Score = _____ Points

I have read and followed the WISCONSIN QSO PARTY RULES to the best of my knowledge.
(All OPERATORS must sign.)

Signature(s) _____

Date _____

To qualify, entries must be postmarked by April 15, 1989. Send to: WISCONSIN QSO PARTY, WEST ALLIS RADIO AMATEUR CLUB, P. O. BOX 1072, MILWAUKEE, WI 53201. Entries may be disqualified if the QSO Party Rules are not followed. The decision of the Wisconsin QSO Party Rules Committee shall be final. Results will be published in Badger State Smoke Signals. All entries will receive the "official results" issue free.

Wisconsin QSO Party

(From page 11)

Operator Technician went to KA9TEP, Milwaukee County, with 252. Winner in Multi-Operator Fixed was NS9E, Eau Claire County, with 131,004.

Out of state activity was good last year as well, with many stations looking for the rarer Wisconsin counties.

Please note that stations using the official entry form on pages 11 and 12 (or a good photocopy of it) will receive a 100 point bonus - and that bonus can make a difference. Just look at the scores of the first and second place single op fixed station entries last year!

We encourage you to take part in the Wisconsin QSO Party. It is without doubt one of the very best of its kind in the country; it is a lot of fun.

Don't forget: we would surely like to have a photo of you at your station to publish with the results in June or July!

The Wisconsin QSO Party is sponsored by the West Allis Radio Amateur Club, which also sponsors the original Mid-Winter Swapfest every January at the Waukesha Expo Center. The club also sponsors and funds the annually-awarded Emil Kumer-shak Memorial Scholarships for Wisconsin students. (The scholarships are administered by the Foundation for Amateur Radio; scholarship details are on page 7 of this issue of Badger State Smoke Signals.)

See you on the air March 19!

JANUARY 4, 1983

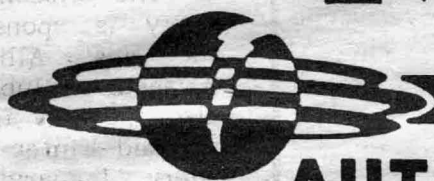
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John's Junk Box

By John W. Frank, WB9TQG
P. O. Box 5113
Madison, WI 53705

MY TRIP TO THE ELECTRIC MOTOR REBUILDERS

About a year ago, I described ham radio applications for some of the merchandise you might find in a typical auto parts store. Well, since then I've been over to some electric motor rebuilding shops where I found more things that can be put to use in the ham shack.

Last fall, the antenna rotator got sluggish, and then stopped turning. The motor, brake, and wiring all checked out fine. Everything pointed to the motor start capacitor in the control unit. But, none of the four electronics parts stores I called had any. Then I called an electric motor rebuilding shop. They had a capacitor that actually exceeded my needs, and it cost me about one third what the rotator manufacturer would have charged me. When replacing capacitors in rotator control boxes, make sure the motor start capacitor you install has a working voltage at least as high as the original. The capacitance of the motor start capacitor is generally not critical.

Have you ever gone shopping for transformer oil for a dummy load? I have. First,

I called a power company. They didn't want to sell me any. Then I called an industrial supply company. They wanted to know how many 55 gallon barrels of oil I needed. Finally, I called an electric motor rebuilding shop and asked if they could sell me a gallon of transformer oil that didn't contain PCBs. Yes, they could sell me a gallon of transformer oil. They also assured me it did not contain hazardous substances.

As most hard-core homebrewers know, you can no longer go down to the nearest electronics parts store and buy a few feet of enameled wire to wind a coil for your latest home brew ham shack thingamajig. The last time I went looking for enameled wire, I ended up back at the electric motor rebuilding shop. Although I knew how much wire I needed in feet, they didn't sell it that way. I ended up winding a lot of wire onto a spool I had taken with me and buying the wire by the pound. After winding two coils, I had a lot of wire left over. Well, the excess wire is on a spool in the bottom of the junkbox.

Some words of warning: Don't use plain enameled wire for wire antennas (dipoles or inverted vees, for example). This type of wire may stretch or break.

Some electric motor rebuilders also sell various plugs, terminals, connectors, cords, and other doodads related to electric motors. With a little thought and planning, many of these things can be adapted to the ham shack.

73,

John

QRV Antenna EmergencyPacks

EmergencyPacks contain QRV All Band kink-proof wx-sealed multi-band Dipole-V-Sloper antenna, 70' coax feedline, Quick Launch system, rotproof dacron support braid, 40 p Tech Manual. Complete. Ready for Action. One person installs in 15 minutes. Infopack \$1 by 1st class mail.

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WE'LL GIVE THIS ONE TO "GROPER" SIMPSON,
HERE --- IF HE CAN'T FIX IT, NOBODY CAN!

87-14 Battle Rages On

The battle to save all of 220 MHz for Amateur Radio rages on in the FCC docket files.

Back in November, 1988, United Parcel Service filed a Petition for Rulemaking, RM-6595, to "assist the Commission in the formulation of service rules for the 220-222 MHz band and to ensure that the much-needed spectrum is available on a timely basis." This is an apparent effort to speed up the release of 220-222 MHz frequencies for private Land Mobile use.

The American Radio Relay League has now filed comments strongly opposing the UPS petition. The League said: "It is apparent that UPS submitted its petition primarily as an attempt to justify the frequency allocation relative to the Docket 87-14 appeals, rather than to establish permanent operating parameters for the private land mobile use of the band. The first half of the petition, for example, makes no reference at all to the specifics of the UPS proposal for implementation of the band, but rather is a statement of the alleged justification for the frequency allocation.... the UPS petition is thus no more than an unauthorized pleading submitted with the intent to influence the Commission's deliberations on reconsideration in Docket 87-14."

The League's petition also pointed out: "The UPS petition, however, seeks to implement a frequency band which may well never be available to the land mobile service. It would be highly premature, and a waste of the Commission's time and resources, to commence a proceeding which may be rendered moot by action on any of the more than 500 reconsideration petitions now on file."

Even assuming, for argument's sake, that 220-222 MHz was ultimately reallocated to both the government and non-government land mobile services, paragraph 57 of the 87-14 Order noted there would have to be a coordination procedure developed for the band between the two users. It would certainly be premature to propose any channelization prior to the development of sharing arrangements between government and nongovernment services.

The ARRL concluded by urging the Commission dismiss the petition.

- From The ARRL Letter

FCC Enforcement Action

In the continuing crackdown by the Commission on unauthorized radio use, Kingsville (Texas) FCC investigators visited several station operators, who, when asked, said they were unaware that an FCC license was required for operation of these stations on frequencies in and around the amateur bands. The stations are now silent, awaiting license applications to be acted upon, and the Commission hopes that the interference to authorized operations in the area will be curtailed.

- From The ARRL Letter

More Riverland Christmas Party Photos

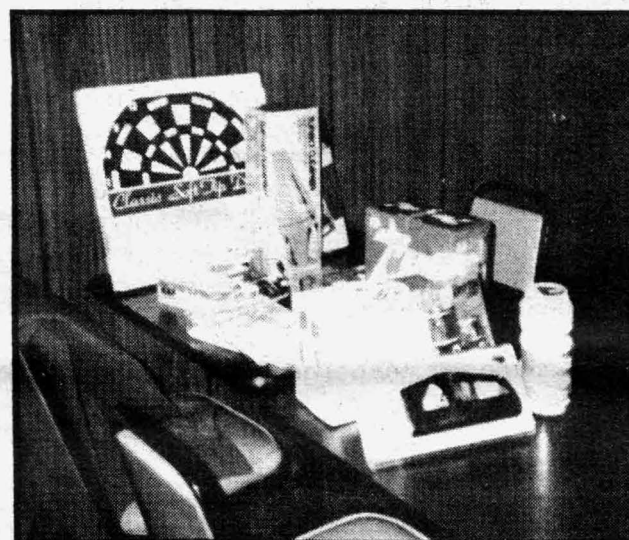


The Riverland Amateur Radio Club's Christmas Party was held January 14, 1989. In the photo at left, Vice-President George Kroner, KA9HOP (center), orders another drink. Art Osborn, WØJDC, is at left. At right, Charlie Burch, KA9UUK, sits at a table, entertaining the ladies. At right, Craig Goldbeck, N9ETD, says, "What, I wasn't re-elected president??!!"



In the photo at left, enjoying the party, with XYLs, were Charlie Burch, KA9UUK; George Kroner, KA9HOP; and John Kass, WA9-IZY. In the photo at right are the door prizes.

Photos by Greg A. Miller, KA9-FOZ.



About Amateur Concerns Over 10 Meter Radios

Since Uniden and Radio Shack began advertising their respective "affordable 10 meter radios", there has been a lot of Amateur concern about the rig being purchased and used by unlicensed persons.

There are several points to be kept in mind with these radios.

Tandy/Radio Shack has notified potential purchasers of the equipment of the FCC licensing requirement in at least four ways: in their advertising flyer, in a prominent place on the outside of the box, on a sticker placed on the top of the rig itself,

and in a lengthy explanation in the instruction manual. The manual also contains information on how to get help in studying for a license, and joining the American Radio Relay League.

There is no legal requirement that a potential purchaser prove he/she is licensed before a transmitter is sold. To our best knowledge, no major retailer imposes such a limitation on their sales people voluntarily.

The ARRL has long supported a point-of-sale proof-of-licensing requirement for obtaining transmitting equipment. In the deregulatory environment of the past decade, and with the budgetary constraints under which federal agencies like the Fed-

eral Communications Commission are now operating, there has been no reasonable possibility of promoting such legislation.

Officials of both corporations are well aware of Amateur concerns. There are many Hams in both organizations. And, while they are in business to make a profit, we have every reason to believe that these radios are designed for the Amateur market, and not for bootleggers or for conversion to out-of-band use. The interest by these respective corporations is received as a sign that the industry shares the belief that Amateur Radio has a bright future.

- The ARRL Letter, published by The American Radio Relay League

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FEATURES INCLUDE

Maximum power outputs from 50 to 150 Watts
Thermostatically controlled fan on most models
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"Straight through" mode when overheated or turned off
Standard 8 3/4" x 19" rack panel mounting

See UTILITY LINE catalog sheet for details

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Full monitoring of amplifier performance. Amplifier will shut down in the face of certain abuses and status can be determined from front panel LED's and signals at a rear connector.

OTHER FEATURES INCLUDE

Maximum power outputs from 100 to 250 Watts
Forced air cooling for low temperatures and long life
Line voltage operation - Power supply built in
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"Straight through" mode when shut down or turned off
Standard 3 1/2" x 19" rack or table top mounting

See PRESTIGE LINE catalog sheets for details

• • •

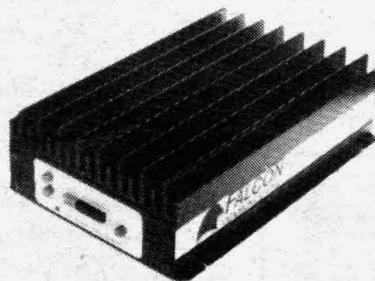
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See MOBILE LINE catalog sheet for details



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COMING
SOON

The End of an Era

An era ended on Friday, February 17, 1989, with the sudden death of Clyde "Coffee" Downing, W9HSY, of Madison.

Clyde was president of the Madison Area Repeater Association, and had served as that club's president since the club was organized 17 years ago. His leadership ability was obvious and undisputable.

He never gave less than one hundred percent to any task to which he was committed; that could be seen at the Madison Swapfest every year, where he was a whirlwind in sneakers, keeping things running smoothly.

Madison radio listeners who are in their 30s or 40s will remember Clyde's heyday, when he was for years the number one disk jockey at Madison's number one radio station, WISM, AM 1480; there, he was Clyde Coffee, "your coffee-sippin', donut-dunkin', toast-crunchin' buddy." More recently, he had worked for WHIT, AM 1550 in Madison, and was scheduled to begin work at WTSO, AM 1070, Madison, when he died.

He was a popular live DJ for dances, too.

One news story just after his death said that Clyde was a "loner," but that description really doesn't fit, as evidenced by the number of Radio Amateurs and other friends at his visitation in Madison on Monday, February 20; there were dozens of Hams at least, and probably more. And, at least as many friends from all walks of life were there, too. Retired people came. Working people came. Older people came. Young people came. Former sports-caster Bill Short was there, as was Speaker Pro Tem of the Wisconsin Assembly David Clarenbach. Clyde cut a wide swath, indeed.

Clyde Downing impacted on hundreds of people who were fortunate enough to be his friends, and he certainly impacted on many thousands more on broadcast radio, with corny jokes and all-around good humor. He impacted on Amateur Radio, too, with hundreds of hours of hard work for the Madison Swapfest, with his leadership of MARA, and with his willingness to help other Radio Amateurs, too.

It was suggested at the visitation that a memorial would be appropriate.

The funeral service was held Tuesday, February 21, 1989, in Madison, where eulogies were delivered by former fellow WISM employees Jonathan Little and Bill Short. And Clyde would have no doubt been pleased since, after the service, coffee and donuts were served.

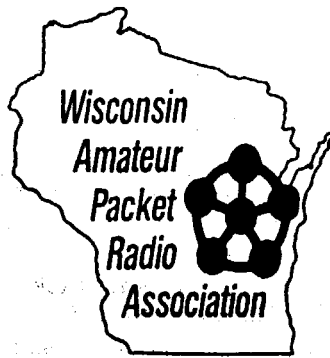
Clyde was buried, after additional services in Ontario, WI, in Old Ontario Cemetery.

Amateur Radio will be a bit different without W9HSY. Many of us benefitted in many ways by his friendship. There was always a smile, always a cheery "howdy." He did a lot for all of us, and things will never be quite the same.



THE OLD FAMILY ALBUM

In this photo, taken about 20 years ago, George Halper, W9SUF, West Allis, is operating 2 meter FM, using converted Motorola equipment. We aren't certain what the event was, but with tents visible in the background, it was probably Field Day, or an emergency or exercise. This photo is from the archives of Don Evenson, K9JYX, Baraboo.



THE WISCONSIN PACKETEER

Wisconsin Amateur Packet Radio Association (WAPRA)

c/o CARL SCHUMACHER, N9BYS
7740 EVERGREEN TERRACE
BURLINGTON, WI 53106

Steve Loeffler, WB9ZRE, Editor, 123 W. Oshkosh St., Ripon, WI 54971

"For Sale" Are Legal

Recently a bulletin was circulated stating that "For Sale" messages on Packet Radio Bulletin Boards are illegal. The information that this bulletin was based upon (as well as contained) was taken from Compuserve's Ham Net forum. This information was outdated (February 1987) and the Belfast, Maine FCC monitoring station that issued it WAS IN ERROR. Unfortunately, this erroneous information was never removed from Compuserve and the author of the recent bulletin had no knowledge of the ensuing successful search to correct this error.

Below, I present some information that defines the legality of "For Sale" messages. I also intend to contact the FCC that they present, in the future, the name and location of a Commission official who verifies the following (although the information presented is from VERY reliable sources).

From AD8I:
Ladies and Gentlemen ...

I have recently seen negative messages from SYSOPS and others concerning FOR SALE messages on the packet system. Allow me pass along the following information:

1) Discussions with FCC monitors at Allegan, Michigan reveal that the actions of the Belfast, Maine monitoring station are wrong. Any individual Amateur IS permitted to advertise, by Amateur Radio, the availability of his surplus equipment so long as he does not make a regular practice of such sales.

2) The ARRL Rule Book (7th Edition), November 1, 1987, gives the following:

"Amateurs may use their stations from time to time to discuss the availability of a piece of Amateur Radio equipment, but such activity would be limited to that of an occasional nature. It is best not to discuss price on the air. Activities could not include any items of a personal nature, such as a camera or ordinary broadcast radios. Hams should not engage in regular "flea market" or business activities ... so as to derive a profit by buying and selling ham gear on a regularly scheduled basis." Given the publication by the ARRL both in "The FCC Rule Book" and the Washington Mailbox column of "QST" (which is checked by FCC officials) of this interpretation, I am confident in the propriety of "For Sale" messages on the Packet system. 73, And more recently from KA9LQM:

Hi Greg,

I have talked with the FCC office in Chicago Illinois and they assured me by phone that ["For

Sale"] messages were OK as long as pricing was deleted. Unfortunately that was over six months ago and I no longer have the notes of who I talked to concerning the situation. I personally allow them on my board if in good taste and I feel they are within FCC Guidelines as I understand them.....

73 Mike KA9LQM @ KA9LQM.IN.USA.NA

So there you have it. The SYSOPs of two large and well known BBSs allow "ForSale" messages (within the guidelines). I personally allow them myself, and my system is no "peanut" operation (over 10,000 messages in 1988). If any SYSOP feels that this type of message is improper for his (her) system, by all means he (she) should not accept or post them! However, PLEASE, do not try to convince all other SYSOPs and users that they are illegal - they are NOT!

TNC freeware for PC/MS DOS and compatibles

I would like to make subject software available to any interested amateur digital radio operator. Basically, the program is written around the PK-232, and was developed empirically over several years. Indeed, it will never be finished, but is now in quite usable form. I would like others to use and enjoy the software, and give me feedback on how we can make it better. Like most freeware, a program grows and expands as different people use it and provide feedback.

The primary features include ...

- o Menu driven mode selection
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- o Forty user programmed function key IX strings (incl IX on/off)
- o Thirty special purpose control function keys
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- o Response buffer allows formulation of next transmission
- o Save data to diskfile and send from diskfiles
- o File utility views directories and deletes specified files
- o Print utility allows on or off-line
- o Downloads date and time to the TNC
- o Downloads fifteen user defined commands to the TNC

The package also includes a USERS MANUAL, and sample files for aiding you in preparing your own custom function key macros.

This system is especially useful for DXers who will take advantage of the DX prefix/country/azimuth listing. (Users outside of the San Francisco Bay area will have to customize the antenna headings database to their particular QTH).

A copy of the system may be obtained by sending a formatted 5.25 inch disk and an SASE disk mailer (or five bucks) to:

D. R. Lucido W6BXE
4857 Venner Road
Martinez, CA 94553

If you have questions, you may contact me via the N6VV system, or write to the above address.

I hope users have as much fun using it as I have had developing it.

73 and happy hamming!

TAPR Supports a No-Code License

In formal action the TAPR Board has voted to support an amateur initiated proposal to the FCC which would provide for a no-code license class.

We recognize the controversial nature of the issue. We are aware of the potential divisiveness within our community which this issue can bring about. We feel, however, that the adoption of a no-code license class is so critical to the future of amateur radio that these risks must be taken. We also feel that the leadership of the ARRL in such a proposal will be the most effective means by which divisiveness and controversy can be minimized.

Our best efforts are going to be put forth to influence the amateur community at large to support, through the ARRL, a no-code initiative. We expect to gain support from amateur technical groups as well as local and regional amateur groups. We hope that by approximately mid-summer we will have been able to generate support for no-code to the extent that the ARRL Board of Directors will favor the action.

In the interim we are going ahead with the preparation of a petition to the FCC containing a no-code proposal. I can candidly tell you that it is our hope that the ARRL will be in a position by mid-summer to relieve us of this independent action and take over the leadership of the initiative. Failing in this, we shall proceed. was asked by NARA to open up a special section for them, which he did. Since it's inception the volume of no-code discussion in this forum has been heavy. I find both the pro and the con

dialogues to be most enlightening. Since this is a matter in which you, as an ARRL Director, are no doubt interested I am taking the liberty of sending you an electronic copy of those discussions. The format of the disk is MSDOS. I plan to provide you with periodic updates of these discussions.

I have also included a shareware utility which permits easy reading, scrolling and scanning of the text. To use merely enter "LIST (filespec)". The arrow keys and PgUp/PgDn keys are functional. The F1 key provides a help screen.

The text is total and complete from Hamnet and has not been edited.

I am sending this letter and information to each of the ARRL Directors. If you have comments on this method of providing you with information, or the desirability thereof, I would be most pleased to hear from you.

Best 73,

Andy Freeborn NOCCZ
President IAPR

WARNING - DOS 4.01 Uncompatibilities

It has been reported that there are several fatal flaws in the new DOS 4.01 which was supposed to have fixed the bugs in 4.0! The most major flaw is one which was deliberately written by the authors. The size of the FAT [File Allocation Tables] has been doubled in size. This is nice from one point of view, but, it makes volumes of existing software unusable in a DOS 4.01 environment! For example, Norton utilities will not be able to find the directory on the disk. This has also caused internal timing problems with DISQview which many BBSs use as multiple tasking software. 4.01 does increase certain user features which are nice, but again...YOU MAY LOSE THE USE OF EXISTING SOFTWARE. Microsoft's viewpoint is that they have improved the DOS and now the software authors have to rewrite their code to take advantage of the features. Sort of like re-inventing the wheel each time a new version is released!

10 Meter Beacons - Opinions Wanted

Comments are invited regarding this message I received:

-----BEGIN QUOTE-----

I read with interest your recent bulletin concerning 10 mtr 1200 baud packet operation. This sounds really neat, but unfortunately this operation interferes with IARU coordinated propagation beacons that have been operating in that part of the band for a number of years.

The 28.205 LSB operation that you mentioned interferes with ZS5VHF and DL0IGI, in addition to domestic beacon operations. Your suggestion to operate at 28.210 will cause interference to 3B8MS, WA1IOB and K4KMZ. 28.215 operation will step on ZD9GI and GB3RAL.

28.2 to 28.3 has been used by beacons for quite awhile. The IARU is coordinating moving these beacons by next year, but unfortunately they will all be concentrating below 28.225,

which means that packet operation there will be a greater problem.

If you are involved in this operation, could you folks maybe find another part of the band to operate in? How about above 28.225....next year, after the beacons move?

73, Tad - KT7H @ KE7OM.

-----END QUOTE-----

It is my position that the use of 100 kHz of the 10m band by beacons is excessive. The 20m beacon system does well on ONE frequency. We have been excluded from operation on all but the 28.0-28.3 segment of 10 M by the FCC rules. I recognize that beacons are limited to 28.2-28.3, but that doesn't mean that they have the exclusive use of the whole segment. Next year is a long time to wait. With large parts of the band unused, it is a unfortunate that we have to fight over small chunks, but the rules have not kept up with technology.

Thanks in advance for your comments, and please reply to: WW6L @ W6PW

73, BOB, WW6L

RF Noise Reduction Schemes for INCs

If you have a INC in your shack, chances are that you also have a wide band RF generator. INCs are inherently 'noisy' and result in a reduced sensitivity to nearby receivers. Although the INC is enclosed in a metal chassis, RF still gets out via the cables that provide power and interconnection to your computer and radio.

There are several ways to go about reducing RF from a INC:

1. Ground the INC chassis to a good ground system.
2. Use SHIELDED cable for all INC interconnections between the computer and the radio. Use only high quality cable as the cheaper grades have less shielding.
3. Keep cables as short as practicable.
4. Loop interconnecting cables thru toroids at each end of the cable, especially on the power cable. Make sure the toroid is rated for the radio frequency you are using.
5. If RF is still a problem, install small ferrite beads on all leads of all INC's connectors, one or two beads per lead.

Having performed all of the above work, a noticeable reduction in RF emissions should be noted. If not, verify that you indeed are connected to a good earth ground (Don't assume that you are!). Assuming that everything is in order, and RF still continues to plague your shack, try wrapping the INC in aluminum foil, pre-heat the oven to 360 degrees and cook for.....

PK-232 Modification For Lock-Up

Are you having trouble with your PK-232 Locking up (not returning to receive mode) when a high RF signal is present? If so AEA says to add a .01 MFD capacitor across D30.

D30 is located in lower right hand corner of Main Board, parts pictorial page I-1 of operating manual, just to the left of JP2 and JP3 beside SW-2.

Rick - N7KQB

PK-232 Upgrade ROM

ADVANCED ELECTRONIC APPLICATIONS, INC.
PK-232 FIRMWARE REVISION SUPPLEMENT, 30-DEC-88

The following notes describe changes made to the PK-232 firmware on the 23-FEB-88 release.

- * New WHYNOT Command
At times packets will be received by the PK-232 but not displayed on the screen. When set ON, the WHYNOT function posts a message on your screen, explaining why the packets were not displayed.
- * New DIDDLE Command
In Baudot and ASCII transmit modes, when DIDDLE is set ON and the user is not typing characters at the terminal keyboard, the PK-232 sends a continual stream of LTRS characters in Baudot and the NULL characters in ASCII. This keeps the radio channel active, aids in maintaining character synchronization and facilitates tuning for the distant station.
- * New AUDELAY Command
The AUDELAY command permits the user to set a controlled delay between the transmitter PTT keyup and the start of the AFSK audio. Insertion of appropriate values of AUDELAY may help prevent arcing of amplifier relay contacts, and reduce certain types of spurious emissions in synthesized radios.
- * Simplified KISS Command
When set ON, the KISS command now sets all packet parameters needed for ICP/IP operation with the KA9Q "NEI" implementations.
- * New "Packet Dump" Suppression
When an established packet link fails or is suddenly disconnected, all data remaining in the PK-232's transmit buffer is discarded instead of being sent out on the radio channel as UI frames. The PK-232 clears the transmit buffer and issues a DISC to the radio channel. However, normal operation of UI frames for beacons and "Mail for" transmissions from packet BBSs is not affected. This is particularly useful to SysOps of packet BBS and message switches.
- * New CUSTOM Command
The CUSTOM command allows limited customizing of the PK-232 for specific applications such as packet BBSs and special host systems.
- * New MWEIGHT Command
The MWEIGHT command permits the user to vary the Morse dot-to-space ratio from the default weight of 1:1.
- * New Morse Word-wrap
In Morse receive, incoming word groups are broken at word boundaries depending on the setting of ACRDISP. This is similar to the word wrap function in RTTY, AMTOR and packet modes.
- * New NUMS Command
The NUMS command forces the PK-232 into the FIGS case in AMTOR and Baudot receive.

(continued on page 19)

Yellow Thunder Amateur Radio Club



Harry Westlund, K9EHJ,
Secretary
720 Lincoln Avenue
Baraboo, WI 53913

The next meeting of the Yellow Thunder Amateur Radio Club, Inc. will be held on Wednesday, March 15, 1989 in room 25 of the Baraboo Civic Center. The meeting will start at 7:30 p.m.

The February 14, 1989 meeting of the YARC was called to order by the president, Duane Grotophorst, at 7:40 PM.

The minutes of the January meeting were accepted as published in the BSSS.

The treasurer's report was given as:

Operating balance: 210.67

Total balance: 244.24

Old business included a discussion of the trailer-mounted generator. After the weather warms up, the field exciter parts will be mounted and the leaky radiator will be checked. A decision will then be made as to the disposition or storage of this generator.

There were no objections to allow a potential Novice candidate to use the club's Century/21's receiver for code practice.

Bennet Glenn was accepted as an Associate Member. Bennet is studying for the Novice Class License.

The ARRL video tape on Northern Lights will be shown at the March 15th meeting.

Winner of the Buck-Nite prize was K9DZG Ken Johnson, who was not present.

In attendance were:

Duane Grotophorst KA9HKL Loganville

Jim Decker WB9UQT Baraboo

Glenn Bennet Bluff View

Darlene Bennet Bluff View

Harry Mayland K9FFT Baraboo

Harold Reif KA9YQP Baraboo

Art Kleefisch W9WSS Baraboo

Respectfully submitted:
for Harry Westlund, Secretary (AJK)

YTARC BIRTHDAY

Art Escher	WA9WUS	March	12
Fred Becker	W9KKM	March	17

SENTENCE SERMON

The Golden Rule is of no use whatever unless you realize it's your move.

---Atlanta Constitution

RTTY BULLETINS

From: AE9HMB9TYT
To: ALL@RTWIS
Subject: RTTY Bulletins

Remember those Pre-Packet days? Days before error correction? A mode called RTTY? Well, I'll be using this mode to send ARRL Bulletins on Sundays at Noon on 146.70.

I'm an Official Bulletin Station for this area, and a good way to disseminate the bulletins to the non-Packet community is by RTTY. So, if you missed the Bulletins on Packet, or just want to dust off the old Model 15, or check out another mode on the multi-mode, tune in Sundays at Noon on 146.70. Tell a Baudot Buddy about them too. If interest is there for AMTOR Mode B (FEC) transmissions, I can send the Bulletins again on that mode after the RTTY transmission (W1AW style). Again thats:

Noon - Sundays - 146.70 Mhz -Simplex

Any comments appreciated.

73 Jack AE9H

WAPR - PK-232 (continued from page 18)

* New MID Command

While in packet mode, the PK-232 will now send a station ID in Morse at programmable time intervals. This new command satisfies recent rules changes in the United Kingdom. However, the Morse ID is no longer required in areas under FCC jurisdiction and we suggest that American amateurs leave MID set to zero.

* Improved MYCALL Operation

Unless the user installs a valid callsign and MYCALL is left at the default value of "PK232", the PK-232 will not transmit packets of any kind under any conditions.

* WRU Locked in AMTOR

The WRU function is now locked ON in AMTOR. This simplifies user operation and auto-login with certain types of AMTOR MailBoxes. However in Baudot and ASCII, WRU is normally selectable by the ONFF toggle command. In addition, the AAB value is now defaulted as an empty field.

* Enhanced MBX Command

MBX has been enhanced to accept the argument of ALL. Only data fields in the I-frames and UI-frames are shown; headers or other types of frames are not shown. Data from retried frames is shown each time such frames are monitored. The MFROM and MTO commands are active.

* MPROTO Default Change

The MPROTO command is now defaulted to OFF. This helps newcomers avoid screen or terminal conflicts with binary characters sent by certain types of packet nodes and switches.

If DAYTIME has not been set pressing a <CTRL> <I> will cause an asterisk (*) to be sent.

Bumper sticker spotted at a recent hamfest: MY WIFE SAYS IF I GET ON THE RADIO AGAIN SHE'LL LEAVE ME. God I'll miss that woman! --GMDXA NEWSLETTER

CENTRAL WISCONSIN REPEATER ASSOCIATION

The annual meeting and dinner will be held on March 11, 1989 at CJ's on Atlas Avenue, off Cottage Grove Road. Cocktail hour will start at 6:00 p.m. and dinner will be at 7:00 p.m.

Ken Dixon, W9XM and Jim Decker, WB9UQT were the only candidates nominated for the Board of Directors, and they were declared elected to succeed themselves.

A remote receiver has recently been installed at Pine Bluff. This is site number 4. The other remote sites are located at Fox Lake, East Madison and downtown Madison. This new addition will improve repeater usage in the rugged terrain of western Wisconsin.

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